

C++ ASSIGNMENT

1.Ques :Calculate the product of all the elements in the given array.

Ans: `#include<iostream>`
`using namespace std;`
`int main() {`
 `int n;`
 `cin>>n;`
 `int arr[n];`
 `for(int i=0;i<n;i++){`
 `cin>>arr[i];`
 `}`
 `int prod=1;`
 `for(int i=0;i<n;i++){`
 `prod*=arr[i];`
 `}`
 `cout<<prod;`
 `return 0;`
`}`

2.Ques :Find the second largest element in the given Array in one pass.

Ans: `#include<iostream>`
`using namespace std;`
`int main() {`
 `int n;`
 `cin>>n;`
 `int arr[n];`

```

    for(int i=0;i<n;i++){
        cin>>arr[i];
    }
    int max=INT_MIN;
    int Smax=INT_MIN;
    for(int i=0;i<n;i++){
        if(arr[i]>max){
            max=arr[i];
        }
    }
    for(int i=0;i<n;i++){
        if(arr[i]>Smax&&arr[i]!=max){
            Smax=arr[i];
        }
    }
    cout<<Smax;
    return 0;
}

```

3.Ques :Find the minimum value out of all elements in the array.Find the minimum value out of all elements in the array.

Ans: #include<iostream>

using namespace std;

```

int main() {
    int n;
    cin>>n;
    int arr[n];
    for(int i=0;i<n;i++){
        cin>>arr[i];
    }
    int min=INT_MAX;

```

```

        for(int i=0;i<n;i++){
            if(arr[i]<min){
                min=arr[i];
            }
        }
        cout<<min;
        return 0;
    }

```

4.Ques: Given an array, predict if the array contains duplicates or not.

Ans: `#include<iostream>`
`using namespace std;`
`int main() {`
 `int n;`
 `cin>>n;`
 `int arr[n];`
 `for(int i=0;i<n;i++){`
 `cin>>arr[i];`
 `}`
 `bool flag=false;`
 `for(int i=0;i<n;i++){`
 `for(int j=i+1;j<n;j++){`
 `if(arr[j]==arr[i]){`
 `flag=true;`
 `cout<<arr[i];`
 `break;`
 `}`
 `}`
 `}`
`}`
 `if(flag==false) cout<<"not dup";`

```
        return 0;
    }
```

5.Ques:WAP to find the smallest missing positive element in the sorted Array that contains only positive elements.

Ans: #include<iostream>

using namespace std;

```
int main() {
    int n;
    cin>>n;
    int arr[n];
    for(int i=0;i<n;i++){
        cin>>arr[i];
    }
    int x=0;
    bool flag=false;
    for(int i=0;i<n;i++){
        if(arr[i]!=x){
            flag=true;
            cout<<x<<endl;
            break;
        }
        else x++;
    }

    if(flag==false) cout<<x<<endl;
    return 0;
}
```

6.Ques:Predict the output.

```
int main()
{
```

```
int sub[50], i;  
for ( i = 0 ; i <= 48 ; i++ )  
{  
sub[i] = i;  
cout<<sub[i]<<endl;  
}  
return 0;  
}
```

Ans: 49